

3 June 1965

MEMORANDUM FOR: Assistant Director, Computer Services  
THROUGH : Chief, Plans Staff  
SUBJECT : Development Division Monthly Report for May 1965

I. ACTIVITY HIGHLIGHTS

A. CHIVE Project

1. Phase II Documentation

The current status of the Phase II report is as follows:

--Vol. I ("System Summary")

This volume is on mats and after proofreading will be ready for printing.

--Vol. II ("Management Survey")

Final mats are being prepared.

--Vol. III ("Implementation Plan")

Has been printed.

--Vol. IV ("System Requirements")

Has been printed.

--Vol. V ("System Organization, Functions, and Procedures")

This volume is being reviewed by OCR.

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--Vol. VI ("Document Delivery System")

Has been printed.

--Vol. VII ("EDP System")

This volume is on mats and after proofreading will be ready for printing.

2. OCR/CHIVE Indexing Experiment

(a) Experiment Queries

The query phase of the experiment is 99% complete. Several queries have not been discussed with the participating production analysts because it has been inconvenient for them to visit the Headquarters Building. These queries will be completed early in June.

Forms have been developed for analyzing the individual queries and for obtaining an overall statistical analysis of the experiment. The kinds of information being derived from the query analysis include indexing times, error rates, index record characteristics, reasons for query failure, CHIVE/OCR retrieval comparisons, CHIVE's ability to recall documents known to be in the data base, query characteristics, etc. All of the queries levied by the participating production analysts have been analyzed and the analysis of the queries levied against OCR and CHIVE

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is underway. This analysis and the preparation of a final report on the experiment should be largely completed in June.

(b) Experiment Briefings

On 12 May a detailed briefing on the experiment was given to the new OCR Systems Analysis Staff. The briefing covered the experiment aims, indexing techniques, organization, query phase, query analysis procedures, and the results of an indexing consistency test. Portions of the briefing were also attended by the DAD/CR; the Special Assistant to the AD/CR; the CHIVE Officer; and other interested parties. On 18 May the portion of the briefing devoted to query analysis procedures and the indexing consistency test was given to the OCR Division Chiefs.

These briefings highlighted one additional requirement in the analysis of the experiment, i.e., that the rather complete analysis which is being performed by CHIVE on its failure to retrieve documents retrieved by OCR, should be complemented by similar analysis by OCR of its retrieval failures. Following the briefing it was decided that OCR should perform this analysis and, as a result, a number of OCR personnel have been examining the query results and

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preparing their own statements of OCR performance in the retrieval exercise.

(c) Programming Support to the Experiment

During the month the STAT III program was run successfully. This program was designed to gather frequency data on the utilization of the various fields of the header data recorded during the experiment. This data will be analyzed in connection with the indexer station design.

The JACK I program, designed to produce sample listings of suggested organization, location and personality authority files has been run successfully. Output listings were made showing the various output possibilities that are now envisioned for the file. An additional listing was made which demonstrates listing capability.

3. Implementation Tasks

(a) JACK-L Project

JACK-L consists of several EAM and EDM procedures needed to establish an index of approved place names which will relate the variant spellings currently in use throughout the Intelligence Community to the one approved name. This list will consist of locations that have proven to be of interest to NPIC; DIA; and the DD, FIB, GR, and SR components

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of OCR. It will be used as a base for an authority on locations for the proposed CHIVE Test Branch.

The job consists of reformatting and merging four card files and three tape files into one tape file which will be ordered by place name. The card files involved are the location files from the OCR components mentioned above. The tape files are NMIC's Target Brief file, DIA's FIC/d Post Number file (both available in OCS), and either DIA's

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The files from GR and FIB will be merged using OCS BAI equipment. The rest of the job, which consists of merging the tape resulting from the card merges and the three tape files will be done on the 1410.

(b) IES Modification

Work on the IES modification is underway. Several draft chapters of the IES revision have been completed.

(c) Summary Files

Advisory assistance was provided to OCR personnel who are working on some installation/organization summary files.

4. CHIVE Task Descriptions

Two task descriptions in the implementation area are being prepared. The purpose of these will be to establish requirements

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for the CHIVE Test Branch and to obtain agreement on what will constitute a satisfactory demonstration of initial system capabilities during Phase III, distinguish requirements for operational capabilities, and describe a vehicle for testing and measuring system performance.

5. CHIVE EDP Development

Functional requirements that affect EDP design have been extracted from the Phase II Report. These functions will be used as a starting point for the design of the initial CHIVE EDP system. A preliminary design specification for the area of conditional file maintenance has been prepared.

B. ALP Project

1. Stenographic Machine Modifications

Analysis by IBM personnel in Kingston of the steno tapes being generated in the speed-building class has shown that the modified stenograph machines are not aligning the paper properly. The machines will be returned for correction to Stenograph Machines, Inc., at their expense. The first group of five machines was sent on 25 May.

2. Steno Cassette Construction

The model steno cassette of wooden construction submitted by IBM, Kingston, has been examined and a few changes recommended. The Machine Division of OOR will work with the

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Agency carpentry shop to build the cassettes by 1 August.

### 3. Steno Software Effort

The first version of the ALP steno disk (ALP-1) was scheduled to be put on the ALP hardware during the week of 24 May, but due to engineering difficulties will be installed some time in June. The disk will incorporate most of the FDD vocabulary as determined by the frequency counts made at IEM Research, and in OCS/ALP. The core tables and steno programs will also be loaded into the ALP system during June so that system debugging can begin.

### 4. Russian Software Effort

The Russian programming work is behind schedule and IEM Research has started a parallel programming effort to speed up the bi-directional translation system in the event there is further slippage in the process word programming effort. IEM's official position, however, is that they will deliver the process word programs with the ALP system.

### C. Briefings, Meetings, Miscellany

1. [ ] contributed a section on Information Handling of Communist China Materials to the brochure distributed to the DD/I conference on measures to improve collection of information on Communist China.

2. On 19 May, [ ] briefed the DD/P S&T OPS course on

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OCR support to the DD/P S&T effort on Communist China.

3. [ ] as chairman of the Working Group on Transliteration, Task Team III, CODIB, conducted a group meeting on 12 May.

4. [ ] attended the International Conference on Computational Linguistics in New York City on 19-21 May and the International Federation for Information Processing session on 27 May. [ ] attended the IFIP Congress on 24-25 May.

5. [ ] spent 4-5 May at IBM Research to learn the procedure for updating the ALP Russian Master Dictionary.

6. [ ] attended a presentation on the [ ] given at the Defense Language Institute, Anacostia, on 17 May.

7. On 4 May, [ ] attended the regular monthly CODIB meeting. [ ] of State gave a briefing on the Foreign Affairs Information Management Effort (FAIME).

8. On 7 May, [ ] attended a demonstration of a Unit Record Retrieval System by the Access Corp. in Washington, D. C.

9. On 11 May, personnel from Western Union met with Messrs.

[ ] to discuss the



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Western Union Optical Character Reader, Model 220. On 25 May

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[redacted] attended a demonstration of the equipment in Western Union's offices in New York City.

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10. [redacted] attended a "Workshop on Semi-Automatic Document Retrieval Systems" sponsored by AFOSR and SDC on 3-5 May.

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11. A CHIVE management review and planning conference was held on 10 May with [redacted] and [redacted] attending.

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12. [redacted] attended the OCS FMSAC briefing on 11 May.

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13. On 6 May [redacted] made an initial contact with the Chief of the OCR Systems Analysis Staff, [redacted]

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14. Mr. Bourne was on-site 13 and 14 May. During this period he reviewed the input statistics of the CHIVE experiment and made preparations for his transfer to Headquarters Building for the summer. He will be on-site beginning 1 June.

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15. [redacted] attended a half-day briefing by IBM on the CYPRESS proposal presented to OCR Management. Modifications to the proposed system were presented and plans were made for an Agency visit to San Jose on 10 and 11 June.

16. On 21 May [redacted] participated in an OCR conference requested by Mr. Ronald Wyllys of the System Development

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Corporation in conjunction with their study of a proposed Management Information Network sponsored by COSATI.

17. On 26 May [ ] participated in a briefing given by [ ]

[ ] It is tentatively planned that [ ] will [ ] to discuss mutual problems in the development of information systems prior to his attendance [ ]

## II. PERSONNEL

### A. Agency

1. [ ] entered on duty as a Development Division secretary on 4 May.
2. On 21 May, [ ] was officially transferred back to OOR; he will remain with the Development Division until the CHIVE Test Branch is organized.

### B. IBM

1. Personnel currently assigned to Project CHIVE:

(Full Time)

1. Alper, B. H.
2. Flynn, N. J.
3. Hooper, R. S.
4. Luke, J. A.
5. Murray, P. J.

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6. Moore, P. A.

7. Oberthaler, S. H.

8. Pittard, L. I.

(Part Time)

9. DiCostanzo, J. A.

10. Miles, R. J.

2. Personnel Changes

1. R. M. Siegmund left the project during the past month.

2. J. Lake and L. Pittard were temporarily removed from CHIVE during the last two weeks of May while attending 360 programming school.

3. On 27 May the IBM on-site Project Manager responsibility was transferred from Mr. Miles to Mr. Murray. Mr. Murray will report to Mr. DiCostanzo in Bethesda on administrative matters.

III. BUDGET AND FISCAL

A. IBM/CHIVE Contract

The total number of man-hours expended on CHIVE during the month of May was 1,157.

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Expenditures to date on the current contract are approximately  
22% of the contract.



Chief  
Development Division

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JHW:kap